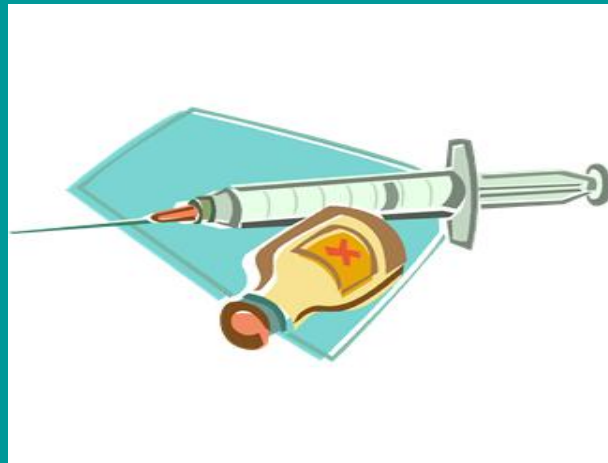


# Nurses Call The Shots

## Immunization Update 2013

Ramonda Housh, APN, MNSc, C-PNP



# Objective

- ◆ Educate nurses regarding the updated immunization schedule and new CDC recommendations for children and adults.



There is no  
vaccine  
against stupidity!



# The Immune System and Vaccines

- ◆ Immunology and Vaccine-Preventable Diseases
- ◆ Classification of Vaccines



# Encouragement from Healthcare Providers

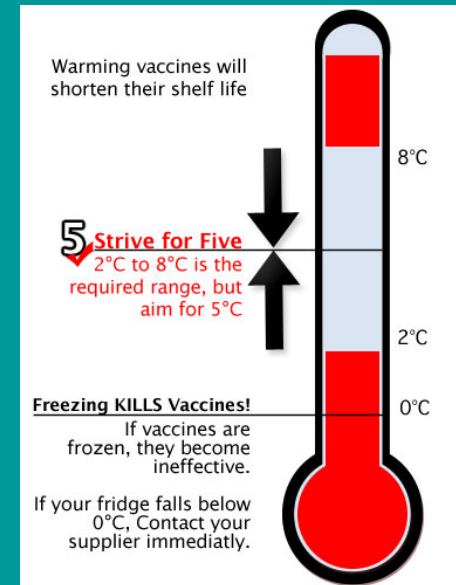
- ◆ Do we need to increase Immunization levels?
- ◆ AFIX Approach
- ◆ Additional Strategies to achieve vaccination goals



# Vaccine Safety

## ◆ The Provider's Role

- Storage
  - ◆ Temperature
  - ◆ Equipment
- Handling
- Training and Education
- Inventory Control
- Receiving and Unpacking of Shipments
- Off-site Clinics
- Preparation and Disposal



# Diphtheria

- ◆ What is Diphtheria
- ◆ Trends in the US
- ◆ Vaccination Schedule and Use
- ◆ Adverse Reactions
- ◆ Storage and Handling

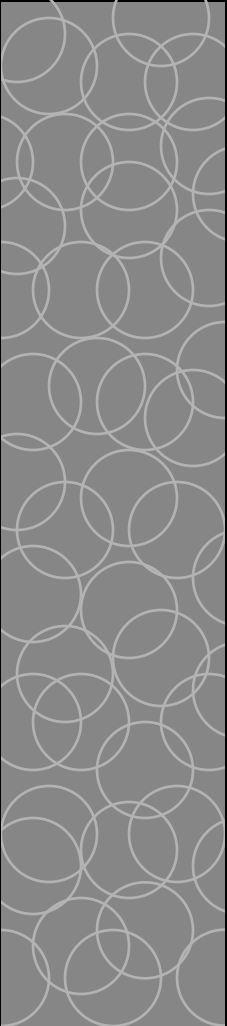







# Tetanus

---

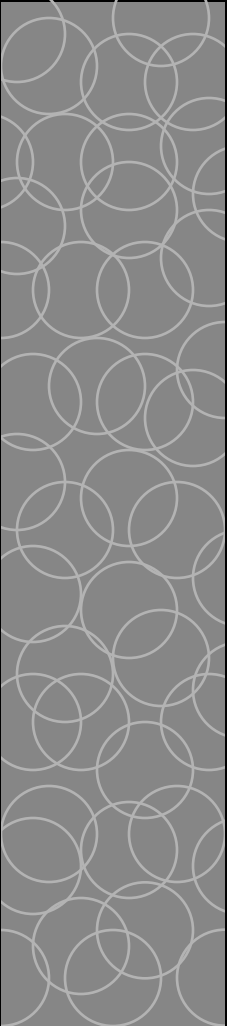

- 
- ◆ What is Tetanus
  - ◆ Trends in the US
  - ◆ Vaccination Schedule and Use
  - ◆ Adverse Reactions
  - ◆ Storage and Handling
- 





# Pertussis

---

- 
- ◆ What is Pertussis
  - ◆ Trends in the US
  - ◆ Vaccination Schedule and Use
  - ◆ Adverse Reactions
  - ◆ Storage and Handling
- 

# Haemophilus influenzae

- ◆ What is H. flu
- ◆ Trends in the US
- ◆ Vaccination Schedule and Use
- ◆ Adverse Reactions
- ◆ Storage and Handling



© Neal Halsey, MD

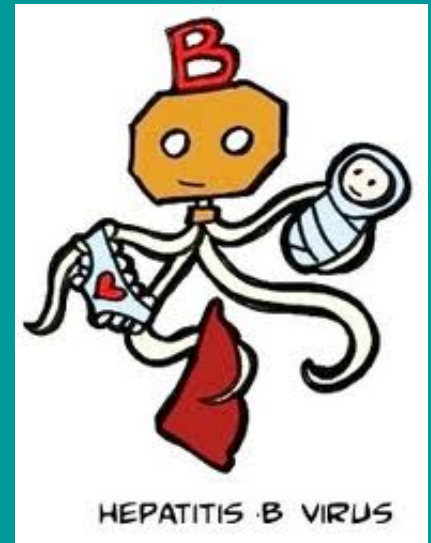
# Hepatitis A

- ◆ What is Hepatitis A
- ◆ Trends in the US
- ◆ Vaccination Schedule and Use
- ◆ Adverse Reactions
- ◆ Storage and Handling



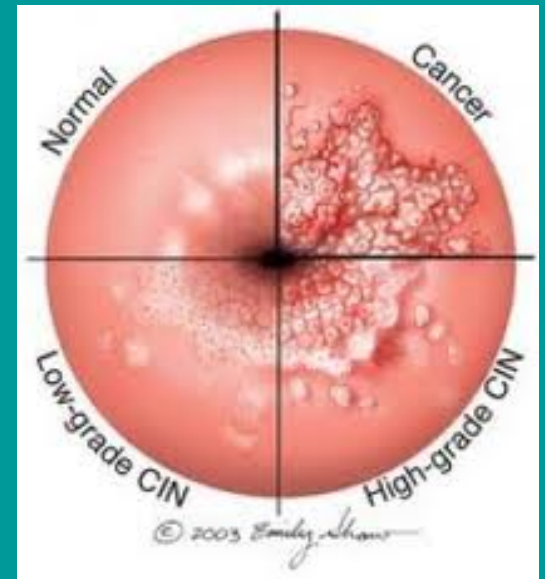
# Hepatitis B

- ◆ What is Hepatitis B
- ◆ Trends in the US
- ◆ Vaccination Schedule and Use
- ◆ Adverse Reactions
- ◆ Storage and Handling



# Human Papillomavirus

- ◆ What is HPV
- ◆ Trends in the US
- ◆ Vaccination Schedule and Use
- ◆ Adverse Reactions
- ◆ Storage and Handling



# Influenza

- ◆ What is the flu
- ◆ Trends in the US
- ◆ Vaccination Schedule and Use
- ◆ Adverse Reactions
- ◆ Storage and Handling



# Measles

- ◆ What is Measles
- ◆ Trends in the US
- ◆ Vaccination Schedule and Use
- ◆ Adverse Reactions
- ◆ Storage and Handling





# Mumps

- ◆ What is Mumps
- ◆ Trends in the US
- ◆ Vaccination Schedule and Use
- ◆ Adverse Reactions
- ◆ Storage and Handling



# Rubella

- ◆ What is Rubella
- ◆ Trends in the US
- ◆ Vaccination Schedule and Use
- ◆ Adverse Reactions
- ◆ Storage and Handling



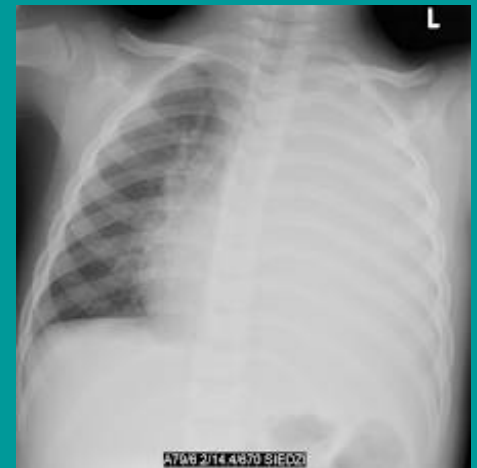
# Meningococcal Disease

- ◆ What is *Neisseria meningitidis*
- ◆ Trends in the US
- ◆ Vaccination Schedule and Use
- ◆ Adverse Reactions
- ◆ Storage and Handling



# Pneumococcal Disease

- ◆ What is *Streptococcus pneumoniae* and the Pneumococcal conjugate, 13-valent vaccine
- ◆ Trends in the US
- ◆ Vaccination Schedule and Use
- ◆ Adverse Reactions
- ◆ Storage and Handling



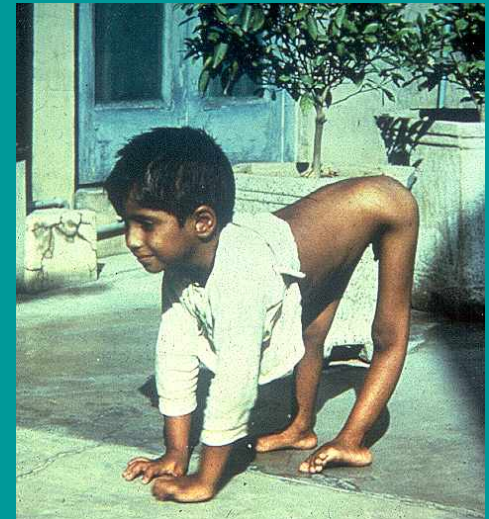
# Pneumococcal Disease

- ◆ What is Pneumococcal polysaccharide, 23-valent
- ◆ Trends in the US
- ◆ Vaccination Schedule and Use
- ◆ Adverse Reactions
- ◆ Storage and Handling



# Poliomyelitis

- ◆ What is Polio
- ◆ Trends in the US
- ◆ Vaccination Schedule and Use
- ◆ Adverse Reactions
- ◆ Storage and Handling



# Rotavirus

- ◆ What is Rotavirus
- ◆ Trends in the US
- ◆ Vaccination Schedule and Use
- ◆ Adverse Reactions
- ◆ Storage and Handling



“Did you say Rotavirus???”



# Varicella

- ◆ What is Chicken Pox
- ◆ Trends in the US
- ◆ Vaccination Schedule and Use
- ◆ Adverse Reactions
- ◆ Storage and Handling



# Shingles

- ◆ What is Zoster
- ◆ Trends in the US
- ◆ Vaccination Schedule and Use
- ◆ Adverse Reactions
- ◆ Storage and Handling



# Bioterrorism and Vaccinations

- ◆ What are Anthrax and Smallpox
- ◆ Trends in the US
- ◆ Adverse Reactions
- ◆ Storage and Handling



# Less Common Vaccines

- ◆ Yellow Fever Vaccine
- ◆ Typhoid vaccination
- ◆ BCG
- ◆ Japanese encephalitis
- ◆ Rabies Vaccine



# Post-Exposure Vaccination

## ◆ Immune Globulin

- Botulism
- Hepatitis B
- Rabies
- Tetanus
- Varicella Zoster



# Before calling the shots...



- ◆ Make sure you know
  - If the vaccine was handled and stored appropriately
  - How to administer the vaccines you are giving
  - Management of reactions in adults and children

# Paperwork involved...

- ◆ Document the vaccine given, the site, and how the patient tolerated it
- ◆ The manufacturer, lot number and expiration date
- ◆ The name, title, and address of the person administering the vaccine
- ◆ VIS dates-printed and given
- ◆ VAERS form if there was a reaction





# Combination Vaccines

- ◆ DtaP
- ◆ TdaP
- ◆ MMRV
- ◆ KINRIX
- ◆ Pentacel
- ◆ Pediarix



“Did you hear them say  
‘combined’ vaccines? Now  
that’s what I’m talkin’ ‘bout,  
Jack!”




# Discontinued Vaccines in the US

---



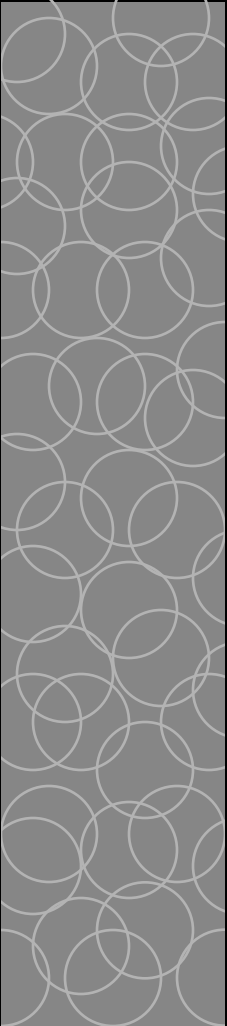

## ◆ Just a few

- Smallpox (1967)
  - DTP
  - Lyme Disease vaccine (2002)
  - OPV, live virus Polio (2000)
  - Prevnar 7-valent (2011)
  - RotaShield ((1999)
- 



# What's New?

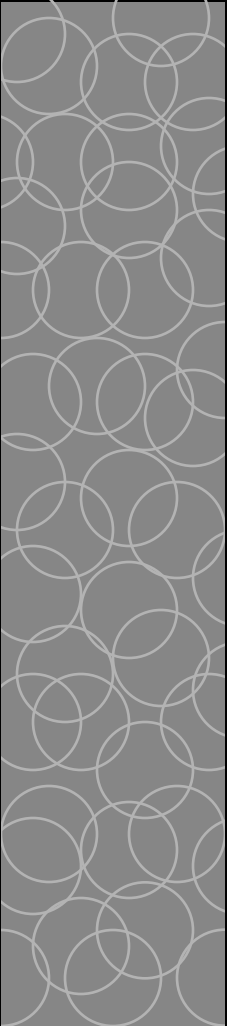
---

- 
- ◆ Combined Childhood and Adolescent Schedule
  - ◆ Hepatitis A at 12 months and again in 6-12 months
  - ◆ Age 11-12: Tdap, HPV, Meningococcal vaccine
  - ◆ Age 16-18: Meningococcal booster
  - ◆ Adults: Vaccinating 19 and older with PPSV23 (pneumonia shot) if they smoke
- 



# References

---

- 
- ◆ Centers for Disease Control and Prevention, [www.cdc.gov](http://www.cdc.gov)
  - ◆ Immunization Action Coalition, [www.immunize.org](http://www.immunize.org)



# Schedule

---

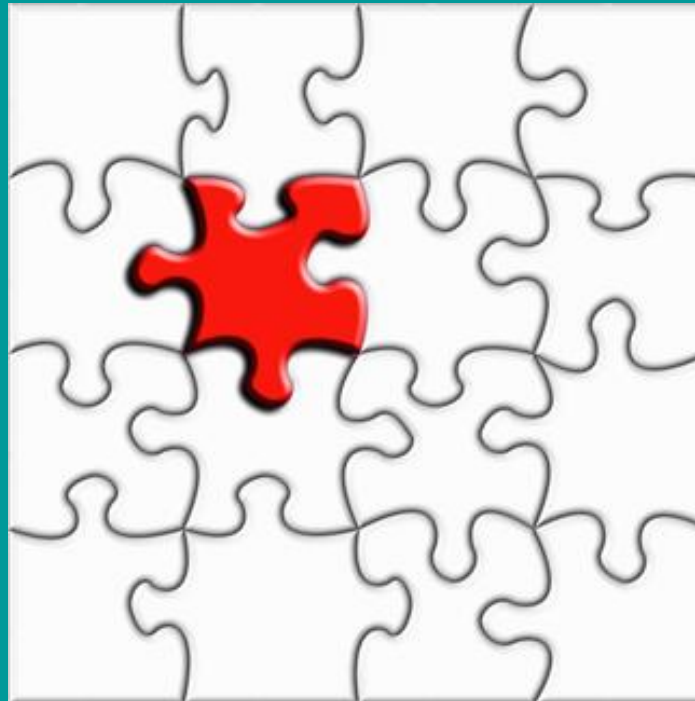


◆ See Handout



# Case Studies

## ◆ Solving the puzzle



# Questions

